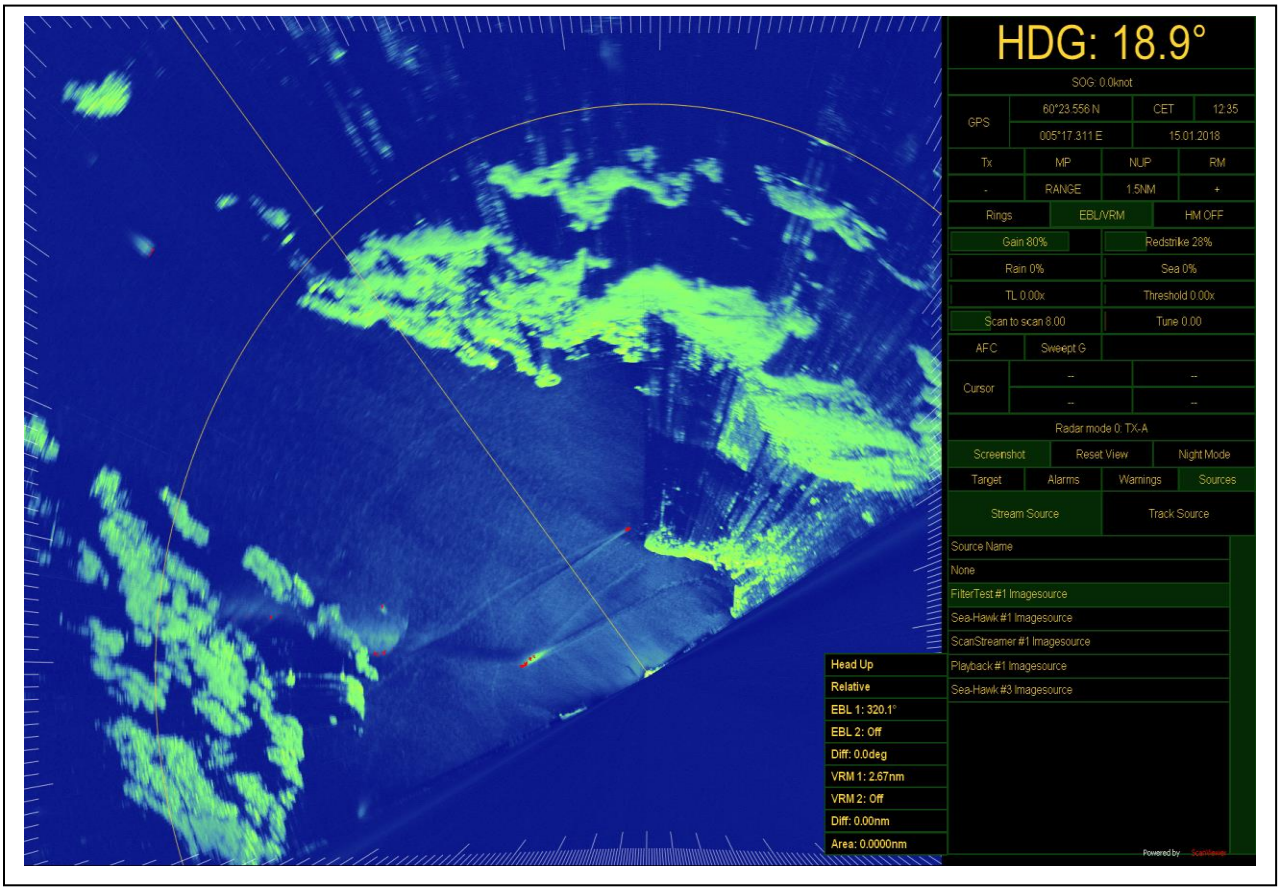
SEA-HAWK
SHN X9 VIEW
POLARIMETRIC RADAR



SHN- VIEW processor with High-resolution image

Main office :
Vågsgaten 22
POB 157 Laksevåg
N-5847 Bergen, Norway

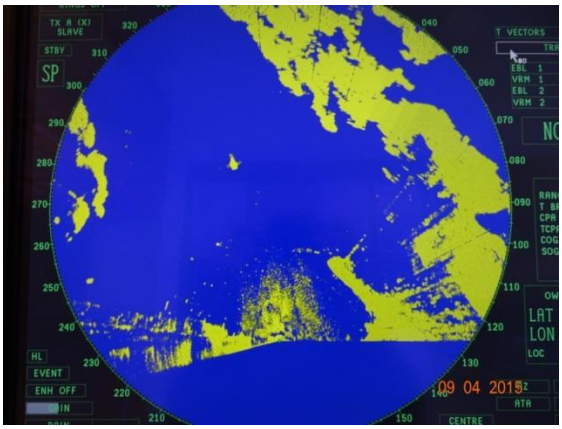
WEB : www.sea-hawk.no

E-mail : radar@sea-hawk.no

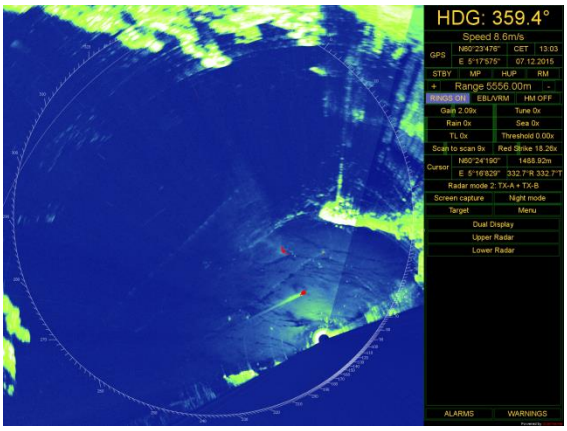
Org. no : NO 982 004 365
Tel (switch): + 47 56 11 23 11

SHN- VIEW processor with High-resolution image

Small target detection
Rescue operations
Pirates
Ice Detection
Oil Spill indication
Red marking on movable targets



Standard IMO Navigation radar picture



Sea-Hawk VIEW Radar processor picture

Specification:	
Range:	0,125 - 48 nm + Range Zoom
EBL	2
VRM	2
Display	Head Up – North Up
AIS	0 - 300
Scan to Scan	0 - 30
ARPA	50 targets
Guard Zone	2
Red first strike	Red marking on movable targets
Antenna	
SHN X9 Polarimetric	Dual antenna system HP and CP polarization
Gyro – GPS - AIS	Nmea
Voltage Range 1 phase	230 v +/- 10 % RMS (Other Voltage on option)
Input Voltage Frequency	47 – 64 Hz.

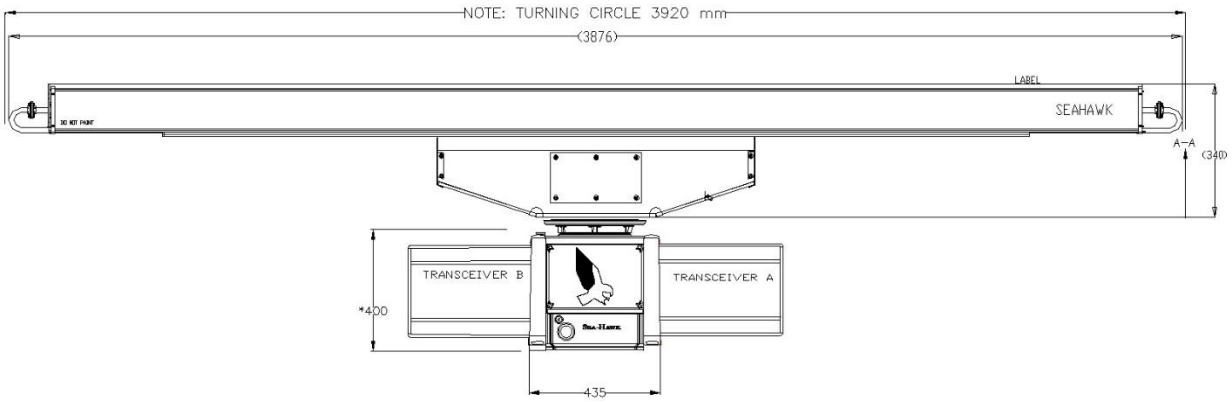
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SEA-HAWK





SHN-X9 is a dual X-band 25 kW radar system, with two transceivers and two 9 feet antennas in one radar system. The 9 feet Antenna options are HP&CP, HP&VPT and CP&VP.

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Transceiver	(Same specifications for both transceivers)
Magnetron Peak Power	25 kW nominal
Magnetron Frequency	9410 MHz ±30 MHz
Pulse Length/PRF	0.05 µs/3000 Hz nominal (Short Pulse) 0.25 µs/1800 Hz nominal (Medium Pulse) 0.75 µs/785 Hz nominal (Long Pulse)
Pulse Generator	Solid-state with pulse forming network driving the magnetron.
Receiver	
Receiver Type	Logarithmic, with Low Noise Front End (LNFE)
Receiver Tuning	AFC/Manual
IF (Intermediate Frequency)	Centered at 60 MHz
IF Bandwidth	20 MHz on short and medium pulses (nominal) 3 MHz on long pulse (nominal)
Noise Factor	5.0 dB nominal
Dynamic Range	80 dB nominal
Antenna	
Antenna rotating speed,	40 rpm (optional 50, 30, 25 or 20 rpm)
Horizontal antenna	Gain min 30 dB, Beamwidth = 0,9 ˚
Circular antenna RHCP	Gain min 29 dB, Beamwidth = 0,9 ˚
Vertical antenna	Gain min 30 dB, Beamwidth = 0,9 ˚ optional
General	
Input Voltage Range 1 phase	230V +/- 10% RMS Other Voltage on option
Input Voltage Frequency Range	47 – 64 Hz
Max power load	Without motor 240 VA With motor 950 VA
Weight	190 kg

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